

DERWENT-ACC-NO: 1985-004385

DERWENT-WEEK: 198501

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TITLE: Aq. polymer dispersion stabilised with ionised  
carboxylic polyester - from acid anhydride and  
polyester

PATENT-ASSIGNEE: AKZO NV[ALKU]

PRIORITY-DATA: 1983NL-0004021 (November 23, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
NL 8304021 A	December 3, 1984	N/A
013 N/A		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
NL 8304021A	N/A	1983NL-0004021
November 23, 1983		

INT-CL (IPC): B01F017/00, C08F002/16 , C08G063/76 , C09D005/02

ABSTRACTED-PUB-NO: NL 8304021A

BASIC-ABSTRACT:

Aq. dispersion of a polymer of 1 or more alkenically unsatd. cpds. is stabilised by a ionised carboxylic polyester with acid number 40-150, PH number 0-150, and Mn 500-10,000. The polyester is the adduct of a 4-17C polycarboxylic acid anhydride and an initial satd. polyester from a 2-9C di- or poly-OH cpd. and a 2-40C di- or poly-carboxy cpd. with OH number 20-200. The binder in the dispersion consists of 1-99 wt.% of the polymer and 99-1% of the carboxylic polyester.

USE - A coating compsn., physically drying or baking, based on the dispersion is claimed. Application may be by coil coating, (electrostatic)

spraying,  
brushing, pouring, dipping or by a roller. Substrates include  
metals, alloys,  
synthetics, elastomers, wood and glass. One appln. is in the  
automobile  
industry. The dispersed polymer has very small particle size (30-  
400, esp.  
50-200 nm). The dispersion has low viscosity. Coatings have high  
gloss, and  
good resistance to weathering water, and moisture.

TITLE-TERMS: AQUEOUS POLYMER DISPERSE STABILISED IONISE CARBOXYLIC  
POLYESTER

ACID ANHYDRIDE POLYESTER

DERWENT-CLASS: A23 A82 G02

CPI-CODES: A07-B; A08-S05; A12-B01A; G02-A02C; G02-A02D;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0389U; 0610U ; 1023S ; 1060S ;  
1363S ; 1737U  
; 5130U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0004 0007 0008 0009 0016 0037 0038 0206 0046 0151 0226  
0228 1291  
3182 1319 1321 1323 1325 1327 3075 1329 1339 1341 1343 1448 1450 1452  
1454 1458  
1460 1462 3089 1464 1466 1473 1475 1481 1483 3107 1487 1999 2000 2014  
2027 2028  
2029 2041 2064 2066 2148 2150 2177 2180 2197 2198 2199 2272 2276 2279  
2420 2422  
2423 2424 2430 2437 2439 3317 3318 3240 2504 2556 3251 2593 2605 2609  
2651 3255  
2718 2726 2728 3267 3268 2794 3300 0304 0500 3039 0528 2082 2083 3152  
0495 3034  
0502 0530 0586 2105 2106 2122 3041  
Multipunch Codes: 014 02& 03& 030 031 032 038 051 055 056 06- 074 075  
077 08&  
081 10& 104 106 108 143 144 146 15& 151 155 157 159 160 161 162 163  
164 165 166  
167 168 169 17& 170 171 172 173 174 176 177 200 207 208 23- 231 239  
24& 262 264  
266 267 28- 292 31- 311 318 324 327 344 347 359 360 395 397 41- 431  
432 433 434  
436 443 47& 477 50& 51& 512 516 521 53& 532 533 535 54& 540 541 543  
546 549 57&  
57- 575 58& 592 593 597 656 672 688 689 690 691 724 725 726 014 02&  
03& 030 031

032 034 038 051 06- 074 075 076 077 08& 081 10& 104 106 108 143 144  
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 177 200 207 208 23- 231 239 24& 262 264 266 267 27& 28- 292 31- 311  
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 163 164 165  
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 433 434 436 443 47& 477 50& 51& 512 516 521 53& 532 533 535 54& 540  
 541 543 546  
 549 57& 57- 575 58& 59& 592 593 597 656 672 679 689 690 691 724 725  
 726

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-002086